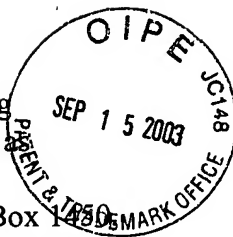


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INFORMATION DISCLOSURE
STATEMENT
Patent Application
Docket No. SPO-111D1
Serial No. 10/641,728

David R. Saliwanchik
David R. Saliwanchik, Patent Attorney

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Shinya Ikematsu, Yoshihiro Yoshida, Kenji Kadomatsu, Munehiro Oda,
Sadatoshi Sakuma, Kin-ya Ashida, Kohsuke Kino, and Takashi Muramatsu.
Serial No. : 10/641,728
Filed : August 15, 2003
For : Therapeutic Agents for Apoptosis-related Diseases

Commissioner for Patents
Mail Stop DD
P.O. Box 1450
Alexandria, VA 22313

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§1.97 AND 1.98

Sir:

In accordance with 37 CFR §1.97 and §1.98(d), the applicants would like to bring to the attention of the Examiner, the references cited in the following patent application:

U.S. Serial No. 09/743,493, filed January 10, 2001, pending.

The subject application, Serial No. 10/641,728 claims the benefit under 35 USC §120 of the filing date of the above application. The applicants respectfully request that the copies of references supplied in the Information Disclosure Statements of the above-mentioned application, as well as the references cited during prosecution thereof, be made of record in the 10/641,728 application. As copies of all of the references filed in the parent application, and cited on the attached form PTO/SB/08, will be found in the parent casefile, copies of those references are not provided herewith.

The applicants respectfully assert that the substantive provisions of 37 CFR §§1.97 and 1.98 are met by the foregoing statement.

Respectfully submitted,



David R. Saliwanchik

Patent Attorney

Registration No. 31, 794

Phone No.: 352-375-8100

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DRS/ba

Attachment: Form PTO/SB/08



PTO/SB/08A (10-01)
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				Application Number	10/641,728
				Filing Date	August 15, 2003
				First Named Inventor	Shinya Ikematsu
				Art Unit	
Examiner Name					
Attorney Docket Number	SPO-111D1				
Sheet	1	of	4		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	U1	6,083,907	07-04-2000	Uchida <i>et al.</i>	All
	U2				
	U3				
	U4				
	U5				

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	- Number ⁴ - Kind Code ⁵ (if known)				
	F1	EP	07/81,844	10-12-1995	Otsuka Pharmaceutical Co. Ltd.	All	
	F2	EP	09/37,461	07-10-1997	Meiji Milk Products Co. Ltd.	All	
	F3	WO	94/27,426	12-08-1994	La Jolla Cancer Research Foundation	All	
	F4	WO	95/03,054	07-22-1994	LXR Biotechnology Inc.	All	
	F5	WO	95/10,540	10-13-1994	Immunex Corporation	All	
	F6	WO	95/13,701	11-15-1994	LXR Biotechnology Inc.	All	
	F7						
	F8						
	F9						

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¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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				Applicant Number	10/641,728
				Filing Date	August 15, 2003
				First Named Inventor	Shinya Ikematsu
				Group Art Unit	
				Examiner Name	
Sheet	2	of	4	Attorney Docket Number	SPO-111D1

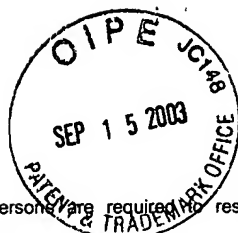
NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	R1	ALLEN, R.T. <i>et al.</i> "Mechanisms Controlling Cellular Suicide: Role of Bcl-2 and Caspases" <i>Cellular and Molecular Life Science</i> , May 1998, pp. 437-439, Vol. 54, No. 5.			
	R2	BORK "Powers and Pitfalls in Sequence Analysis: The 70% Hurdle" <i>Genome Research</i> , 2000, pp. 398-400, Vol. 10.			
	R3	BOWIE <i>et al.</i> "Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions" <i>Science</i> , 1990, pp. 1306-1310, Vol. 247.			
	R4	BURGESS <i>et al.</i> "Possible Dissociation of the Heparin-Binding and Mitogenic Activities of Heparin-Binding (Acidic Fibroblast) Growth Factor-1 from its Receptor-Binding Activities by Site-Directed Mutagenesis of a Single Lysine Residue" <i>J. of Cell Bio.</i> , 1990, pp. 2129-2138, Vol. 111.			
	R5	CHARRIAUT-MARLANGUE, C. <i>et al.</i> "Apoptosis and Necrosis After Reversible Focal Ischemia: An In Situ DNA Fragmentation Analysis" <i>J Cereb Blood Flow Metab.</i> , 1996, pp. 186-194, Vol. 16, No. 2.			
	R6	COLBOURNE, F. <i>et al.</i> "Electron Microscopic Evidence against Apoptosis as the Mechanisms of Neuronal Death in Global Ischemia" <i>The Journal of Neuroscience</i> , June 1, 1999, pp.4200-4210, Vol. 19, No. 11.			
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	R8	GRANERUS, C. <i>et al.</i> "Growth Factors and Apoptosis" <i>Cell Proliferation</i> , 1996, pp. 309-314, Vol. 29, No. 6.			
	R9	GUNJI <i>et al.</i> "Induction of Internucleosomal DNA Fragmentation in Human Myeloid Leukemia Cells by 1-β-D-Arabinofuranosylcytosine" <i>Cancer Research</i> , January 15, 1991, pp. 741-743, Vol. 51,			
	R10	ISHIMARU <i>et al.</i> "NGF Delays Rather than Prevents the Cholinergic Terminal Damage Ad Delayed Neuronal Death in the Hippocampus After Ischemia" <i>Brain Research</i> , 1998, pp. 194-200k, Vol. 789.			
	R11	ISLAM <i>et al.</i> "Detection of DNA Damage Induced by Apoptosis in the Rat Brain Following Incomplete Ischemia" <i>Neuroscience Letters</i> , 1995, pp. 159-162, Vol. 188.			
	R12	JACKOWSKI "Neural Injury Repair: Hope for the Future as Barriers to Effective CNS Regeneration Become Clearer" <i>British J. Neurosurgery</i> , 1995, pp. 303-317, Vol. 9.			
	R13	KADOMATSU <i>et al.</i> "cDNA Cloning and Sequencing of a New Gene Intensely Expressed in Early Differentiation Stages of Embryonal Carcinoma Cells and In Mid-Gestation Period of Mouse Embryogenesis" <i>Biochemical and Biophysical Research Communications</i> , March 30, 1988, pp. 1312-1318. Vol. 151, No. 3.			

Examiner Signature		Date Considered	
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		Applicati n Number	10/641,728		
		Filing Date	August 15, 2003		
		First Named Inventor	Shinya Ikematsu		
		Group Art Unit			
		Examiner Name			
Sheet	3	of	4	Attorney Docket Number	SPO-111D1

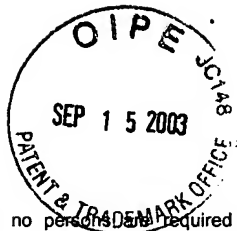
NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	R14	KAUFMANN, S.H. "Induction of Endonucleolytic DNA Cleavage in Human Acute Myelogenous Leukemia Cells by Etoposide, Camptothecin, and Other Cytotoxic Anticancer Drugs: A Cautionary Note" <i>Cancer Research</i> , November 1, 1989, pp. 5870-5878, Vol. 49.	
	R15	KERR "Apoptosis: A Basic Biological Phenomenon with Wide-Ranging Implications in Tissue Kinetics" <i>Br. J. Cancer</i> , 1972, pp. 239-257, Vol. 26.	
	R16	KUO "Amino Acid Sequence and Characterization of a Heparin-binding Neurite-promoting Factor (p18) from Bovine Brain" <i>Journal of Biological Chemistry</i> , November 5, 1990, pp. 18749-18752, Vol. 265, No. 31.	
	R17	KURTZ <i>et al.</i> "Pleiotrophin an Midkine in Normal Development and Tumor Biology" <i>Critical Reviews in Oncogenesis</i> , 1995, pp. 151-177, Vol. 62, No. 2.	
	R18	LAZAR <i>et al.</i> "Transforming Growth Factor Alpha: Mutation of Aspartic Acid 47 and Leucine 48 Results in Different Biological Activities" <i>Molecular and Cellular Biology</i> , 1988, pp. 1247-1252, Vol. 8.	
	R19	LI <i>et al.</i> "Temporal Profile of In Situ DNA Fragmentation After Transient Middle Cerebral Artery Occlusion in the Rat" <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1995, pp. 389-397, No. 15.	
	R20	LI <i>et al.</i> "Cloning and Expression of a Developmentally Regulated Protein That Induces Mitogenic and Neurite Outgrowth Activity" <i>Science</i> , December 21, 1990, pp. 1690-1694, Vol. 250.	
	R21	LINNIK, M. D., <i>et al.</i> "Apoptotic DNA Fragmentation in the Rat Cerebral Cortex Induced by Permanent Middle Cerebral Artery Occlusion" <i>Molecular Brain Research</i> , 1995, pp. 116-124, Vol. 32.	
	R22	LINNIK, M. D. <i>et al.</i> "Evidence Supputing a Role for Programmed Cell Death in Focal Cerebral Ischemia in Rats" <i>Stroke</i> , December 1993, pp. 2002-2009, Vol. 24, No. 12.	
	R23	MICHIKAWA, M. <i>et al.</i> "Retinoic Acid Responsive Gene Product, Midkine, Has Neurotrophic Functions for Mouse Spinal Cord and Dorsal Root Ganglion Neurons in Culture" <i>Journal of Neuroscience Research</i> , 1993, pp. 530-539, Vol. 35.	
	R24	MURAMATSU <i>et al.</i> "Localization of Heparin-binding, Neurite Outgrowth and Antigenic Regions in Midkine Molecule" <i>Biochemical and Biophysical Research Communications</i> , September 15, 1994, pp. 1131-1139, Vol. 203, No. 2.	
	R25	MURAMATSU "The Midkine Family of Growth/Differentiation Facotrs" <i>Develop. Growth & Differ.</i> , 1994, pp. 1-8, Vol. 36, No. 1.	
	R26	NAKATA <i>et al.</i> "Protective Effects of Basic Fibroblast Growth Factor Against Hippocampal Neuronal Damage Following Cerebral Ischemia In the Gerbil" <i>Brain Research</i> , 1993, pp. 354-356, Vol. 605.	

Examiner Signature	Date Considered
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Complete if Known

Application Number	10/641,728
Filing Date	August 15, 2003
First Named Inventor	Shinya Ikematsu
Group Art Unit	
Examiner Name	
Attorney Docket Number	SPO-111D1

Sheet 4 of 4

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Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	R27	NELSON <i>et al.</i> "Formation of Synapses Between Cells of a Neuroblastoma X Glioma Hybrid Clone and Mouse Myotubes" <i>Brain Research</i> , 1978, pp. 245-259, Vol. 147.	
	R28	RAUVALA <i>et al.</i> "An 18-kd Heparin-Binding Protein of Developing Brain that is Distinct from Fibroblast Growth Factors" <i>The EMBO Journal</i> , 1989, pp. 2933-2941, Vol. 8, No. 10.	
	R29	SCOTT <i>et al.</i> "The Pendred Syndrome Gene Encodes a Chloride-Iodide Transport Protein" <i>Nature Genetics</i> , 1999, pp. 440-443, Vol. 21.	
	R30	SHIGENO <i>et al.</i> "Amelioration of Delayed Neuronal Death in the Hippocampus by Nerve Growth Factor" <i>The Journal of Neuroscience</i> , September 1991, pp. 2914-2919, Vol. 11, No. 9.	
	R31	SORIANO <i>et al.</i> "Apoptosis and c-Jun in the Thalamus of the Rat Following Cortical Infarction" <i>Neuro Report</i> , January 13, 1996, pp. 425-428, Vol. 7, No. 2.	
	R32	THOMPSON "Apoptosis in the Pathogenesis and Treatment of Diseases" <i>Science</i> , March 10, 1995, pp. 1456-1462, Vol. 267.	
	R33	TOMOMURA <i>et al.</i> "A Retinoic Acid-responsive Gene, MK, Found in the Teratocarcinoma System" <i>The Journal of Biological Chemistry</i> , June 25, 1990, pp. 10765-10770, Vol. 265, No. 18.	
	R34	TSUJIMOTO <i>et al.</i> "Cloning of the Chromosome Breakpoint of Neoplastic B Cells with the t(14;18) Chromosome Translocation" <i>Science</i> , November 1984, pp. 1097-1099, No. 226.	
	R35	TSUTSUMI <i>et al.</i> "Polyethylene Glycol Modification of Interleukin-6 Enhances its Thrombopoietic Activity" <i>Journal of Controlled Release</i> , 1995, pp. 447-451, Vol. 33.	
	R36	TSUTSUMI, Y. <i>et al.</i> "Molecular Design of Hybrid Tumour Necrosis Factor- II: The Molecular Size of Polyethylene Glycol-Modified Tumour Necrosis Factor- Affects its Anti-Tumour Potency" <i>British Journal of Cancer</i> , 1996, pp. 1090-1095, Vol. 74.	
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	R38	VAUX <i>et al.</i> "Bcl-2 Gene Promotes Haemopoietic Cell Survival and Cooperates with C-MYC to Immortalize Pre-B Cells" <i>Nature</i> , September 1988, pp. 440-442, Vol. 335.	
	R39	WELLSTEIN <i>et al.</i> "A Heparin-binding Growth Factor Secreted from Breast Cancer Cells Homologous to a Developmentally Regulated Cytokine" <i>The Journal of Biological Chemistry</i> , February 5, 1992, pp. 2582-2587, Vol. 267, No. 4.	

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